

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) SDG MF6AF4 Case 42764 Contract EPW09038 Region 6 DDTID 159030 SOW ISM01.3

Data Review Reports

Blanks

Blanks	Hg
NCB05	The following samples have no detected analytes. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	PBS01, MF6AG7
	Mercury PBS01 , MF6AG7
Blanks	Hg
NCB06	The following samples have no detected analytes. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	PBS01, MF6AG7
	Mercury PBS01 , MF6AG7
Blanks	Hg
ND15	The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF6AF4, MF6AF4D, MF6AF4S, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4
	Mercury MF6AF4 , MF6AF4D , MF6AF4S , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
Blanks	Hg
ND16	The following samples have analyte results greater than or equal to MDLs. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF6AF4, MF6AF4D, MF6AF4S, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4
	Mercury MF6AF4 , MF6AF4D , MF6AF4S , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4



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Data Review Reports

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Blanks	ICP_AES
NCB02	The following samples have analyte results greater than or equal to MDLs but equal to CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are reported at CRQLs.
	MF6AG4
	Cobalt MF6AG4
Blanks	ICP_AES
NCB05	The following samples have no detected analytes. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF6AF4L
	Antimony MF6AF4L
Blanks	ICP_AES
NCB06	The following samples have no detected analytes. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	PBW01, MF6AG9, MF6AF4L
	Vanadium PBW01 , MF6AG9
	Sodium PBW01 , MF6AG9
	Chromium PBW01 , MF6AG9
	Barium PBW01 , MF6AG9
	Zinc PBW01 , MF6AG9
	Antimony MF6AF4L
	Copper PBW01 , MF6AG9
	Magnesium PBW01 , MF6AG9
	Manganese PBW01 , MF6AG9
	Iron PBW01 , MF6AG9
Blanks	ICP_AES
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF6AG9, PB65101BL
	Arsenic MF6AG9
	Barium PB65101BL
Blanks	ICP_AES

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Blanks

Blanks	ICP_AES
ND04	<p>The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.</p> <p>MF6AG9, MF6AF4L, MF6AF4D, MF6AG3, MF6AG7, MF6AN3, MF6AN4, PB65101BL, PBW01, MF6AF4, MF6AF6, MF6AF7, MF6AG6</p> <p>Arsenic MF6AG9</p> <p>Cobalt MF6AF4L, MF6AF4D, MF6AG3, MF6AG7, MF6AN3, MF6AN4</p> <p>Barium PB65101BL</p> <p>Beryllium MF6AG9</p> <p>Aluminum PBW01, MF6AG9, PB65101BL</p> <p>Potassium PBW01, MF6AF4L</p> <p>Cadmium MF6AF4, MF6AF4D, MF6AF6, MF6AF7, MF6AG6</p>
Blanks	ICP_AES
ND05	<p>The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.</p> <p>LCS, MF6AF4A, MF6AF4, MF6AF4L, MF6AF4D, MF6AF4S, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4</p> <p>Arsenic LCS</p> <p>Cobalt MF6AF4A</p> <p>Barium LCS, MF6AF4, MF6AF4L, MF6AF4D, MF6AF4S, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4</p> <p>Nickel LCS, MF6AF4, MF6AF4L, MF6AF4D, MF6AF4S, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4</p> <p>Antimony MF6AF4A</p> <p>Cadmium MF6AF4A</p> <p>Iron LCS</p>
Blanks	ICP AES
ND06	<p>The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.</p> <p>LCS, MF6AF4, MF6AF4L, MF6AF4D, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4, MF6AF4S, MF6AF4A</p> <p>Calcium LCS, MF6AF4, MF6AF4L, MF6AF4D, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4</p> <p>Nickel LCS, MF6AF4, MF6AF4L, MF6AF4D, MF6AF4S, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4, MF6AF4A</p> <p>Potassium LCS</p>

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Blanks

Blanks	ICP_AES
Copper	LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF4S , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
Barium	LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF4S , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
Cobalt	LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF4S , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG5 , MF6AG6 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AF4A
Aluminum	LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
Beryllium	LCS
Antimony	MF6AF4A
Cadmium	LCS , MF6AF4S , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4 , MF6AF4A
Magnesium	LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
Iron	LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
Manganese	LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF4S , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
Blanks	ICP_AES
ND15	The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS , MF6AF4 , MF6AF4D , MF6AF4S , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4 , MF6AF4L
	Antimony LCS , MF6AF4 , MF6AF4D , MF6AF4S , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
	Potassium LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
Blanks	ICP_AES
ND16	The following samples have analyte results greater than or equal to MDLs. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
	Sodium LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
	Barium LCS
	Potassium LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
Blanks	ICP_AES
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF4S , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4

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Data Review Reports

Blanks

Blanks	ICP_AES
	Barium LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF4S , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
	Aluminum LCS , MF6AF4 , MF6AF4L , MF6AF4D , MF6AF6 , MF6AF7 , MF6AG2 , MF6AG3 , MF6AG4 , MF6AG5 , MF6AG6 , MF6AG7 , MF6AC2 , MF6AC3 , MF6AC4 , MF6AN3 , MF6AN4
	Potassium LCS

National Functional Guidelines Report #03**Lab** CHEM(Chemtech Consulting Group) **SDG** MF6AF4 **Case** 42764 **Contract** EPW09038 **Region** 6 **DDTID** 159030 **SOW** ISM01.3***Data Review Reports*****Detection Limit**

Detection Limit	Hg
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF6AG9, MF6AF4, MF6AF4D, MF6AF6, MF6AF7, MF6AG6, MF6AC3, MF6AC4
	Mercury MF6AG9 , MF6AF4 , MF6AF4D , MF6AF6 , MF6AF7 , MF6AG6 , MF6AC3 , MF6AC4

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Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF6AF4L, MF6AF4D, MF6AG2, MF6AG3, MF6AC2, MF6AN3, MF6AN4, MF6AF4, MF6AF6, MF6AF7, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AG9, PB65101BL, PBW01, MF6AC3, MF6AC4
	Sodium MF6AF4L, MF6AF4D, MF6AG2, MF6AG3, MF6AC2, MF6AN3, MF6AN4
	Selenium MF6AF4, MF6AF4L, MF6AF4D, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AN3, MF6AN4
	Arsenic MF6AG9
	Cobalt MF6AF4L, MF6AF4D, MF6AG3, MF6AG7, MF6AN3, MF6AN4
	Barium PB65101BL
	Beryllium MF6AG9, MF6AF4L, MF6AG4, MF6AG7
	Aluminum PBW01, MF6AG9, PB65101BL
	Antimony MF6AF4, MF6AF4D, MF6AF6, MF6AF7, MF6AG6, MF6AC2, MF6AC3, MF6AC4, MF6AN4
	Potassium PBW01, MF6AF4L
	Thallium MF6AG3, MF6AG4, MF6AG5, MF6AG7
	Cadmium MF6AF4, MF6AF4D, MF6AF6, MF6AF7, MF6AG6
	Silver MF6AG6, MF6AC2, MF6AC3, MF6AC4

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Duplicates

Duplicates	ICP_AES
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ. MF6AF4, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4
	Arsenic MF6AF4D
	Barium MF6AF4D
	Nickel MF6AF4D
	Magnesium MF6AF4D
	Manganese MF6AF4D

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Data Review Reports

Matrix Spikes

Matrix Spikes	ICP_AES
NG10	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries less than 75%. Detected analytes with results greater than or equal to MDLs are qualified J-. Nondetected analytes are qualified UJ. MF6AF4, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4
	Antimony MF6AF4S
Matrix Spikes	ICP_AES
NG13	The following Matrix Spike samples have percent recoveries greater than 125% and post-digestion spike samples have percent recoveries greater than 125%. Detected analytes with results greater than or equal to MDLs are qualified J+. Nondetected analytes are not qualified. MF6AF4, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4
	Cadmium MF6AF4S
Matrix Spikes	ICP_AES
NG14	The following Matrix Spike samples have percent recoveries greater than 125% and post-digestion spike samples have percent recoveries less than or equal to 125%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are not qualified. MF6AF4, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4
	Cobalt MF6AF4S
	Nickel MF6AF4S

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Serial Dilution

Serial Dilution	ICP_AES
NL031	The following ICP-AES Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF6AF4, MF6AF6, MF6AF7, MF6AG2, MF6AG3, MF6AG4, MF6AG5, MF6AG6, MF6AG7, MF6AC2, MF6AC3, MF6AC4, MF6AN3, MF6AN4
	Vanadium MF6AF4L
	Calcium MF6AF4L
	Zinc MF6AF4L
	Copper MF6AF4L
	Magnesium MF6AF4L
	Manganese MF6AF4L
	Iron MF6AF4L